



Senior Water Resource Control Engineer

Exam Code: 3844

Department: State Water Resources Control Board

Exam Type: Departmental, Open

Final Filing Date: Continuous

CLASSIFICATION DETAILS

Senior Water Resource Control Engineer – \$9,766.00-\$12,223.00 per month.

View [the Senior Water Resource Control Engineer classification specification](#)

APPLICATION INSTRUCTIONS

Final Filing Date: Continuous

Who Should Apply:

Applicants who meet the minimum qualifications as stated on this bulletin may apply for and take this examination.

Once you have taken this examination, you may not retake it for **six (6)** months.

How To Apply: The link to connect to the Training and Experience Evaluation is located farther down on this bulletin in the “Taking the Exam” section.

Special Testing Arrangements:

If you require assistance or alternative testing arrangements due to a disability, please contact the testing department listed in the Contact Information section of this bulletin.

MINIMUM QUALIFICATIONS

All applicants must meet the education and/or experience requirements as stated on this exam bulletin to be accepted into the examination. Part-time or full-time jobs, regardless of whether paid or volunteer positions, and inside or outside California state service will count toward experience.

Senior Water Resource Control Engineer

All Levels:

Education: Equivalent to graduation from college with a bachelors or advanced degree curriculum accredited by the Accreditation Board for Engineering and Technology with major work in environmental, chemical, sanitary, mechanical, agricultural, geotechnical, or civil engineering, or a related engineering discipline. (If the Accreditation Board accredits any engineering curriculum for Engineering in the institution from which the degree is earned, all engineering curricula from that institution will be considered accredited.) Possession of equivalent qualifications may be demonstrated by graduation from an unaccredited curriculum in any of the above specialized engineering fields, which includes the basic engineering courses normally covered in a standard four-year course, and by qualifying in a written examination covering water quality control engineering. (Registration as a Senior or graduate student in any of the above specialized engineering fields will admit the applicant to the examination, but they must produce evidence of graduation before they will be considered eligible for appointment.)

Possession of a valid certificate of registration as a civil or professional engineer issued by the California State Board of Registration for Professional Engineers. (Applicants who are not registered professional engineers will be admitted to the examination but must secure the certificate of registration before being considered for appointment.) and

Either I

Experience: Two years of experience performing the duties of a Water Resource Control Engineer, Range C or D, in the California state service.

Or II

Experience: Five years of increasingly responsible professional experience in water quality control, water pollution control, sanitary, environmental, chemical, civil, or water rights engineering, or a related field (two years of which must have been supervisory or administrative experience requiring public or official contacts or at a level of

responsibility comparable to that of a Water Resource Control Engineer, Range C or D, in the California state service).

POSITION DESCRIPTION

Senior Water Resource Control Engineer

The Senior Water Resource Control Engineer is either (1) the first line supervisor of a unit within a Division or Region; or (2) a nonsupervisory staff specialist assigned to perform the most complex and technical engineering assignments. The senior level is the first level to which administrative responsibility is assigned.

EXAMINATION SCOPE

This examination consists of the following components:

Training and Experience Evaluation – Weighted 100% of the final score.

The examination will consist solely of a **Training and Experience Evaluation**. To obtain a position on the eligible list, a minimum score of 70% must be received. Applicants will receive their score upon completion of the Training and Experience Evaluation process.

In addition to evaluating applicants' relative knowledge, skills, and ability, as demonstrated by quality and breadth of education and/or experience, emphasis in each exam component will be measuring competitively, relative job demands, each applicant's:

Knowledge of:

1. Principles of water quality control, water rights, and water resource management
2. Environmental, chemical, civil, agricultural, geotechnical, and sanitary engineering principles relating to the treatment and disposal of sewage and industrial and other wastes
3. Design of and construction of water and wastewater facilities;
4. Physical, biological, and chemical factors relating to the control of water pollution and quality, and the management of surface and ground water
5. State Water Quality Control Act
6. Principles, policies, regulations, and requirements of the State Water Resources Control Board and Regional Water Quality Control Boards
7. State and regional water quality control and water rights programs and related programs of other State and Federal agencies
8. Bacteriological, biological, and chemical factors relating to the control of water pollution and quality, and the management of surface and ground water quality;
9. The Board's Equal Employment Opportunity Program objectives

10. A manager's/supervisor's responsibility for promoting equal opportunity in hiring and employment development and promotion, and for maintaining a work environment that is free of discrimination and harassment
11. Methods and techniques of effective leadership
12. California's legislative, budget, and general administrative processes

Ability to:

1. Evaluate cases of water quality degradation and pollution or nuisance conditions and make recommendations for their elimination and control
2. Prepare, review, check, or interpret engineering reports, plans, estimates, and specifications for varied water and wastewater control facilities
3. Conduct and/or have lead responsibilities over monitoring and surveillance activities
4. Assist in conducting water quality and water rights oriented studies, and assist in the preparation of water quality control plans
5. Dictate correspondence and prepare engineering reports
6. Analyze situations accurately and adopt an effective course of action
7. Establish and maintain cooperative relations with those contacted in the course of the work
8. Communicate effectively
9. Interpret and apply the rules, regulations, and requirements of the State Water Resources Control Board and Regional Water Quality Control Boards
10. Interpret and apply the State and Federal Water Quality Control Acts, water rights principles, and the policies, regulations, and requirements for the State Water Resources Control Board and Regional Water Quality Control Boards in all program areas
11. Interpret engineering plans, estimates, and specifications
12. Plan, organize, direct, and coordinate the work of others
13. Direct major field investigations and surveys
14. Conduct special studies
15. Analyze technical data and prepare recommendations for the abatement or control of water pollution or nuisance
16. Effectively contribute to the Board's equal employment opportunity objectives

ELIGIBLE LIST INFORMATION

A departmental, open eligible list for the Senior Water Resource Control Engineer classification will be established for:

State Water Resources Control Board

The names of **successful** competitors will be merged onto the eligible list in order of final score regardless of exam date. Eligibility expires **twelve (12) months** after it is established. Applicants must then retake the examination to reestablish eligibility.

Veterans' Preference will be granted for this examination. In accordance with Government Codes 18973.1 and 18973.5, whenever any veteran, or widow or widower of a veteran achieves a passing score on an open examination, he or she shall be ranked in the top rank of the resulting eligible list.

Veterans status is verified by the California Department of Human Resources (CalHR). Information on this program and [the Veterans' Preference Application](#) (Std. form 1093) is available online. Additional information on veteran benefits is available at the Department of Veterans Affairs.

EXAMINATION INFORMATION

[Preview of the Senior Water Resource Control Engineer Training and Experience Evaluation](#)

PREPARING FOR THE EXAMINATION

Here is a list of suggested resources to have available prior to taking the exam.

Employment History: Employment dates, job titles, organization names and addresses, names of supervisors or persons who can verify your job responsibilities, and phone numbers of persons listed above.

Education: School names and addresses, degrees earned, dates attended, courses taken (verifiable on a transcript), persons or office who can verify education, and phone numbers of persons or offices listed above.

Training: Class titles, certifications received, names of persons who can verify your training, and phone numbers of persons listed above.

TAKING THE EXAMINATION

Take [the Senior Water Resource Control Engineer examination](#).

TESTING DEPARTMENTS

State of California (all State of California departments)

CONTACT INFORMATION

If you have any **technical** questions concerning this examination bulletin, please contact:

California Department of Human Resources
Attn: Examination Services
1515 S Street
Sacramento, CA 95811
Phone: 1-866-844-8671
California Relay Service: 1-800-735-2929 (TTY), 1-800-735-2922 (Voice)

If you have any administrative questions concerning this examination bulletin, including provision of reasonable accommodation for this testing process, please contact:

State Water Resources Control Board
916-341-5127

TTY is a Telecommunications Device for the Deaf, and is reachable only from phones equipped with a TTY Device.

EQUAL OPPORTUNITY EMPLOYER

The State of California is an equal opportunity employer to all, regardless of age, ancestry, color, disability (mental and physical), exercising the right of family care and medical leave, gender, gender expression, gender identity, genetic information, marital status, medical condition, military or veteran status, national origin, political affiliation, race, religious creed, sex (includes pregnancy, childbirth, breastfeeding, and related medical conditions), and sexual orientation.

DRUG-FREE STATEMENT

It is an objective of the State of California to achieve a drug-free State work place. Any applicant for State employment will be expected to behave in accordance with this objective, because the use of illegal drugs is inconsistent with the law of the State, the rules governing civil service, and the special trust placed in public servants.

GENERAL INFORMATION

Examination and/or Employment Application (STD 678) forms are available at the California Department of Human Resources, local offices of the Employment Development Department, and through your [CalCareer Account](#).

If you meet the requirements stated on this examination bulletin, you may take this examination, which is competitive. Possession of the entrance requirements does not assure a place on the eligible list. Your performance in the examination described in this bulletin will be rated against a predetermined job-related rating, and all applicants who pass will be ranked according to their score.

The State Water Resource Control Board reserves the right to revise the examination plan to better meet the needs of the service, if the circumstances under which this examination was planned change. Such revision will be in accordance with civil service laws and rules and all applicants will be notified.

General Qualifications: Applicants must possess essential personal qualifications including integrity, initiative, dependability, good judgement, the ability to work cooperatively with others, and a state of health consistent with the ability to perform the assigned duties of the class. A medical examination may be required. In open

examinations, investigation may be made of employment records and personal history and fingerprinting may be required.

Eligible Lists: Eligible lists established by competitive examination, regardless of date, must be used in the following order: 1) sub-divisional promotional, 2) departmental promotional, 3) multi-departmental promotional, 4) servicewide promotional, 5) departmental open, 6) open. When there are two lists of the same kind, the older must be used first. Eligible lists will expire in one to four years unless otherwise stated on the bulletin.

High School Equivalence: Equivalence to completion of the 12th grade may be demonstrated in any one of the following ways: 1) passing the General Education Development (GED) Test; 2) completion of 12 semester units of college-level work; 3) certification from the State Department of Education, a local school board, or high school authorities that the competitor is considered to have education equivalent to graduation from high school; or 4) for clerical and accounting classes, substitution of business college work in place of high school on a year-for-year basis.